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Customer Number

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: McCULLOUGH, COLIN
Application No.: 10/730182 Group Art Unit: Unknown
Filed: December 8, 2003 Examiner: Unknown
Title: ALUMINUM MATRIX COMPOSITE WIRE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

March 8, 2004
Date

Angie Zontelli
Signed by: Angie Zontelli

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

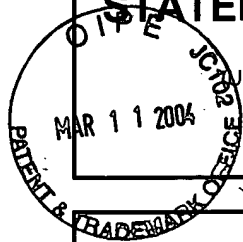
Respectfully submitted,

Date

March 8, 2004

By:

Gregory D. Allen, Reg. No.: 35,048
Telephone No.: (651) 736-0641



Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT Use as many sheets as necessary) Page 1 of 5	Application Number	10/730182
	Filing Date	December 8, 2003
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	Art Unit	Unknown
	Examiner Name	Unknown
	Attorney Case Number	55797US015

U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 2,883,314	04-21-1959	Martin	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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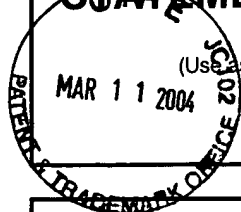
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	A31	US- 5,002,836	03-26-1991	Dinwoodie et al.	
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		Ctry. Code	Number-KindCode (if known)				
	B1	DE	3822543 A1	01-25-1990			English Abstract
	B2	EP	0 461 871 A2	12-18-1991			

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	B3	JP	10-21758	01-23-1998			English Abstract
	B4	JP	2-155129	14-06-1990			English Abstract
	B5	JP	3-129606	09-04-1989			X
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	B9	JP	4-44366	07-21-1992			X
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	B11	JP	52-36274	09-14-1977			X
	B12	JP	7-105761	04-21-1995			English abstract
	B13	JP	7-13056	01-17-1995			English Abstract
	B14	WO	WO 97/00976	01-09-1997			

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	3M Product Brochure, "Continuous Ceramic Fiber Aluminum Matrix Composites," 3M Metal Matrix Composite Project, St. Paul, Minnesota, (date unknown but believed to be prior to filing of the priority application), 6 pages
	C2	ASTM B 230/B 230M - 99, "Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes," <i>Annual Book of ASTM Standards</i> , Vol. 02.03, (1999), pp. 100-104.
	C3	ASTM D 3379-75, "Standard Test Method for Tensile Strength and Young's Modulus for High-Modulus Single-Filament Materials," <i>Annual Book of ASTM Standards</i> , Vol. 08.01, (1989), pp. 128-131.
	C4	ASTM E 228-95, "Standard Test Method for Linear Thermal Expansion of Solid Materials with a Vitreous Silica Dilatometer," <i>Annual Book of ASTM Standards</i> , Vol. 08.01, (1995), pp. 70-76.
	C5	ASTM E 345-93, "Standard Test Methods of Tension Testing of Metallic Foil," <i>Annual Book of ASTM Standards</i> , Vol. 02.03, (1993), pp. 376-380.

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	C6	Blucher et al., "A New Pressure Infiltration Process for Continuous Production of Fiber Reinforced MMC Structural Elements," <i>30th International SAMPE Technical conference Proceedings</i> , Oct. 20-24, 1998, pp. 442-455.
	C7	Cheng et al., "Preparation of Carbon Fibre Reinforced Aluminum via Ultrasonic Liquid Infiltration Technique," <i>Materials Science & Technology</i> , Vol. 9, (1993), pp. 609-614.
	C8	Costello, "Testing of a Wire Rope," in <i>Theory of Wire Rope, 2nd Edition, Chapter 6</i> , Springer-Verlag, (1997), title page and pp. 72-85.
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	C11	Electric Power Research Institute, "Structural Composite Cores for Overhead Power Transmission Conductors," <i>EM-5110, Research Project 2426-9</i> , (1987), 39 pages.
	C12	Gigerenzer et al., "Drawing of Graphite Fiber Reinforced Aluminum Composites," <i>Failure Modes and Processing of Composites IV</i> , eds., J. A. Cornie and F. W. Crossman, (1977), pp. 359-369.
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	C14	Goddard et al., "Continuous Graphite Fiber MMCs," <i>Engineered Materials Handbook</i> , Vol. 1: Composites, ASM International, (1987) pp. 867-873.
	C15	Hunn, "MMC Overview - 1985," <i>SME Composites in Manufacturing 5</i> , Technical Paper, Los Angeles, California, EM86-106, January 13-16, 1986, 14 pages.
	C16	Isaacs et al., "Structure and Plasticity of Aluminum Reinforced with Continuous Alumina Fibers," <i>Proceedings of the 12th International Riso Symposium on Metallurgy and Materials Science: Metal Matrix Composites - Processing, Microstructure and Properties</i> , (1991), pp. 399-404.
	C17	Kaiser Aluminum and Chemical Sales, Inc., <i>Casting Kaiser Aluminum</i> , "Pig and Ingot Product Data Casting Practices and Characteristics of Molten Aluminum," Oakland, California, (1956), title page, publication page, and pp. 59-61.
	C18	Katzman, "Fiber Coatings for Composite Fabrication," <i>Materials & Manufacturing Processes</i> , Vol. 5(1), (1990), pp. 1-15.
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	C20	Ozawa et al., "Development and Evaluation Characteristics of SiC Fiber Reinforced Aluminum Composite Wires for Transmission Line," <i>The Electricity Society Electronics and Energy Department Symposium</i> , (1995), 6 pages and translation, 9 pages.
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	C25	Ronald et al., "Advanced Materials to Fly High in NASP," <i>Advanced Materials & Processes</i> , Vol. 5, (1989), pp. 29-35.
	C26	Tokyo Rope Mfg. Co. Ltd., "Technical Data on CFCC," (Internal Report), Tokyo, Japan (date unknown but believed to be prior to filing date of the priority application), 45 pages.
	C27	Yasutomi et al., "Effects of the SiC/Al Interface Reaction on Fracture Behavior of a Composite Conductor Using SiC Fiber Reinforced Aluminum for Next Generation Power Equipment," <i>Journal of Materials Science</i> , Vol. 34, (1999), pp. 1583-1593.
	C28	Product Bulletin, "3M Ceramic Fiber Products 3M™ Nextel™ 440 Woven Fabrics", © 3M 1997 98-0400-4843-5
	C29	Patent Abstracts of Japan, vol. 1996, No. 04, 30 April 1996 (1996-04-30) & JP 07 335029A (Furukawa Electric Co. Ltd.; The), 22 December 1995 (1995-12-22) the whole document.
	C30	Barnes, Electric Cables, London Sir Isaac Pitman & Sons Ltd., pp. Frontspiece and 110-115
	C31	High-Performance Composites, March/April 1999, page 24
	C32	Mechanical Engineering, June 1999, "Running Energy" beginning pp. 58-61.

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